

Log No. _ <u>094 Rev 2</u> Received 7/30/21 TAG Revision 8/20/21

STATE BUILDING CODE COUNCIL

Washington State Energy Code Development
Standard Energy Code Proposal Form

Code being amended: Commercial Provisions Residential Provisions							
Code Section # Table C405.4.2(2) footnotes / C405.2.2.1 Additional interior lighting power.							
Brief Description:							
Eliminate Table C405.4.2.2.1 Additional interior lighting power footnotes c. and n. in exchange for language more consistent with ASHRAE 90.1–2019.							
Eliminate superfluous language in code, correct typos, and clarify allowances for display and lighting for specific use as ornamentation.							
Proposed code change text: (Copy the existing text from the Integrated Draft, linked above, and then use <u>underline</u> for new text and strikeout for text to be deleted.)							

Table C405.4.2(2) INTERIOR LIGHTING POWER ALLOWANCES: SPACE-BY-SPACE METHOD

TABLE C405.4.2(2) INTERIOR LIGHTING POWER ALLOWANCES: SPACE-BY-SPACE METHOD

Atrium – 20 to 40 feet in height Atrium - Above 40 feet in height Audience/seating area - Permanent In an auditorium In a gymnasium In a penitentiary In a penitentiary In a penitentiary In a penitentiary In a sports arena Otherwise Banking activity area Breakroom (see Lounge/breakroom) Classroom/lecture hall/training room In a penitentiary Otherwise Conference/meeting/multipurpose Confinement cell Copy/print room Corridor In a hospital In a hospital In a penitentiary Otherwise In a penitentiary Otherwise In a facility for the visually impaired (and not used primarily by the staff)b In a penitentiary In a facility for the visually impaired (and not used primarily by the staff)b In a hospital In a penitentiary In a facility for the visually impaired (and not used primarily by the staff)b In a penitentiary In a facility for the visually impaired (and not used primarily by the staff)b In a penitentiary In a facility for the visually impaired (and not used primarily by the staff)b In a penitentiary In a facility for the visually impaired (and not used primarily by the staff)b In a bar/lounge or leisure dining In a family dining area In a f	COMMON SPACE-BY-SPACE TYPES ^a	LPD (w/ft²)
Atrium – 20 to 40 feet in height Atrium - Above 40 feet in height Audience/seating area - Permanent In an auditorium In a gymnasium In a penitentiary In a penitentiary In a penitentiary In a penitentiary In a sports arena Otherwise Banking activity area Breakroom (see Lounge/breakroom) Classroom/lecture hall/training room In a penitentiary Otherwise Conference/meeting/multipurpose Confinement cell Copy/print room Corridor In a hospital In a hospital In a penitentiary Otherwise In a penitentiary Otherwise In a facility for the visually impaired (and not used primarily by the staff)b In a penitentiary In a facility for the visually impaired (and not used primarily by the staff)b In a hospital In a penitentiary In a facility for the visually impaired (and not used primarily by the staff)b In a penitentiary In a facility for the visually impaired (and not used primarily by the staff)b In a penitentiary In a facility for the visually impaired (and not used primarily by the staff)b In a penitentiary In a facility for the visually impaired (and not used primarily by the staff)b In a bar/lounge or leisure dining In a family dining area In a f	Atrium - Less than 20 feet in height	0.39
Audience/seating area - Permanent In an auditorium In a gymnasium In a gymnasium In a penitentiary In a penitentiary In a penitentiary In a periforming arts theater In a religious building In a sports arena In a penitentiary In a facility for the visually impaired (and not used primarily by the staff) In a penitentiary In a penitentiary In a manufacturing facility In a hospital In a manufacturing facility In a facility for the visually impaired In a penitentiary In a facility for the visually impaired In a penitentiary In a facility for the visually impaired In a penitentiary In a facility for the visually impaired In a penitentiary In a facility for the visually impaired In a penitentiary In a facility for the visually impaired (and not used primarily by the staff) In a bar/lounge or leisure dining In a bar/lounge or leisure dining In a family dining area	Atrium – 20 to 40 feet in height	
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In a gymnasium In an motion picture theater In a penitentiary In a penitentiary In an performing arts theater In a religious building In a sports arena O.33 Otherwise Banking activity area Breakroom (see Lounge/breakroom) Classroom/lecture hall/training room In a penitentiary Otherwise ^m O.71 Computer room, data center Conference/meeting/multipurpose Confinement cell O.70 Copy/print room Corridor In a facility for the visually impaired (and not used primarily by the staff) ^b In a hospital Otherwise ^o In a penitentiary Otherwise ^o Otherwise ^o In a penitentiary Otherwise ^o Otherwise ^o In a penitentiary Otherwise ^o Otherwise of the visually impaired (and not used primarily by the staff) ^b In a penitentiary Otherwise ^o In a penitentiary O.42 In a facility for the visually impaired (and not used primarily by the staff) ^b In a bar/lounge or leisure dining ⁿ In a facility for the visually impaired (and not used primarily by the staff) ^b In a facility for the visually impaired (and not used primarily by the staff) ^b In a facility for the visually impaired (and not used primarily by the staff) ^b In a facility for the visually impaired (and not used primarily by the staff) ^b In a facility for the visually impaired (and not used primarily by the staff) ^b In a facility for the visually impaired (and not used primarily by the staff) ^b In a facility for the visually impaired (and not used primarily by the staff) ^b In a facility for the visually impaired (and not used primarily by the staff) ^b In a facility for the visually impaired (and not used primarily by the staff) ^b In a facility for the visually impaired (and not used primarily by the staff) ^b In a facility for the visually impaired (and not used primarily by the staff) ^b In a facility for the visually impaired (and not used primarily by the staff) ^b In a facility for the visually impaired (and not	Audience/seating area - Permanent ⁿ	
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In a penitentiary In an performing arts theater In a religious building In a sports arena Otherwise	In a gymnasium	0.23
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In a religious building In a sports arena Otherwise	In a penitentiary	0.67
In a sports arena Otherwise	In an performing arts theater	1.16
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Breakroom (see Lounge/breakroom) Classroom/lecture hall/training room In a penitentiary Otherwise ^m 0.71 Computer room, data center 0.94 Conference/meeting/multipurpose 0.97 Confinement cell 0.70 Copy/print room 0.31 Corridor In a facility for the visually impaired (and not used primarily by the staff) ^b In a hospital In a manufacturing facility 0.41 Courtroom 1.20 Dining area In a penitentiary In a penitentiary In a bar/lounge or leisure dining ⁿ In a bar/lounge or leisure dining ⁿ In a family dining area n In a family dining area n O.60 Otherwise 0.43 Electrical/mechanical 0.47	Otherwise	0.23
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Copy/print room Corridor In a facility for the visually impaired (and not used primarily by the staff) ^b In a hospital Otherwise ^{c_1} Otherwise ^{c_1} Courtroom ^c In a penitentiary In a penitentiary In a facility for the visually impaired (and not used primarily by the staff) ^b In a bar/lounge or leisure dining ⁿ In a family dining area n Otherwise	Conference/meeting/multipurpose	0.97
Corridor In a facility for the visually impaired (and not used primarily by the staff) ^b In a hospital 0.71 In a manufacturing facility 0.41 Courtroom ^c 1.20 Dining area In a penitentiary 0.42 In a facility for the visually impaired (and not used primarily by the staff) ^b In a bar/lounge or leisure dining ⁿ 0.86 In cafeteria or fast food dining 0.40 Otherwise 0.43 Electrical/mechanical 0.43	Confinement cell	0.70
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Otherwise decourted in the control of the control o	In a hospital	0.71
Courtroom ^c 1.20 Dining area In a penitentiary 0.42 In a facility for the visually impaired (and not used primarily by the staff) ^b In a bar/lounge or leisure dining ⁿ 0.86 In cafeteria or fast food dining 0.40 In a family dining area ⁿ 0.60 Otherwise 0.43 Electrical/mechanical 0.43	In a manufacturing facility	0.41
Dining area In a penitentiary In a facility for the visually impaired (and not used primarily by the staff) In a bar/lounge or leisure dining In cafeteria or fast food dining In a family dining area Otherwise	Otherwise ^c . <mark>.n</mark>	0.41
In a penitentiary 0.42 In a facility for the visually impaired (and not used primarily by the staff) ^b In a bar/lounge or leisure dining 0.40 In cafeteria or fast food dining 0.40 In a family dining area 0.60 Otherwise 0.43 Electrical/mechanical 0.43	Courtroom ^c	1.20
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In cafeteria or fast food dining 0.40 In a family dining area n 0.60 Otherwise 0.43 Electrical/mechanical 0.43	impaired (and not used primarily	1.27
In a family dining area ⁿ 0.60 Otherwise 0.43 Electrical/mechanical 0.43	In a bar/lounge or leisure dining ⁿ	0.86
Otherwise 0.43 Electrical/mechanical 0.43	In cafeteria or fast food dining	0.40
Electrical/mechanical 0.43	In a family dining area n	0.60
	Otherwise	0.43
	Electrical/mechanical	0.43
Emergency vehicle garage 0.52	Emergency vehicle garage	0.52
Food preparation 1.09	Food preparation	1.09

COMMON SPACE-BY-SPACE TYPES ^a	LPD (w/ft²)	
Guest room ^{a,b}	0.41	
Laboratory		
In or as a classrooms	1.11	
Otherwise	1.33	
Laundry/washing area	0.53	
Loading dock, interior	0.88	
Lobby ^c		
In a facility for the visually impaired (and not used primarily by the staff) ^b	1.69	
For an elevator	0.65	
In a hotel	0.51	
In a motion picture theater	0.23	
In a performing arts theater	1.25	
Otherwise	0.84	
Locker room	0.52	
Lounge /breakroom ^{C.n}		
In a health care facility	0.42	
Otherwise	0.59	
Office		
Enclosed ≤ 250	0.74	
Enclosed >250	0.66	
Open plan	0.61	
Parking area, interior	0.15	
Pharmacy area	1.66	
Restroom		
In a facility for the visually impaired (and not used primarily by the staff) ^b	1.26	
Otherwise ⁿ	0.63	
Sales area	1.05	
Seating area, general	0.23	
Stairway (See space containing stairway)		
Stairwell ^{<u>C</u>n}	0.49	
Storage room		
< 50 ft ²	0.51	
50-100 ft ²	0.38	
All other storage	0.38	
Vehicular maintenance	0.60	
Workshop	1.26	

TABLE C405.4.2(2) (continued) INTERIOR LIGHTING POWER ALLOWANCES: SPACE-BY-SPACE METHOD

INTERIOR EIGHTING I GWER ALEGY				
BUILDING SPECIFIC SPACE-BY-SPACE TYPES ^a	LPD (w/ft²)			
Automotive	0.60			
Convention center - Exhibit space ⁿ	0.61			
Dormitory living quartersa,b	0.50			
Facility for the visually impaired ^b				
In a chapel (and not used primarily by the staff)	0.70			
In a recreation room (and not used primarily by the staff)	1.77			
Fire stations				
Sleeping quarters	0.23			
Gymnasium/fitness center				
In an exercise area	0.90			
In a playing area	0.85			
Health care facility c.n				
In an exam/treatment room	1.40			
In an imaging room	0.94			
In a medical supply room	0.62			
In a nursery	0.92			
In a nurse's station	1.17			
In an operating room	2.26			
In a patient room ^g	0.68			
In a physical therapy room	0.91			
In a recovery room	1.25			
Library				
In a reading area n	0.96			
In the stacks	1.10			
Manufacturing facility				
In a detailed manufacturing area	0.80			
In an equipment room	0.76			
In an extra high bay area (> 50-foot floor-ceiling height)	1.42			
BUILDING SPECIFIC SPACE-BY-SPACE TYPES ^a	LPD (w/ft²)			
In a high bay area (25 - 50-foot floor-ceiling height)	1.24			
In a low bay area (< 25-foot floor-ceiling height)	0.86			
Museum				
In a general exhibition area ⁿ	0.31			
In a restoration room	1.10			

BUILDING SPECIFIC SPACE-BY-SPACE TYPES ^a	LPD (w/ft²)	
Performing arts theater dressing/fitting room	0.41	
Post office—Sorting area		
Religious building		
In a fellowship hall ⁿ	0.54	
In a worship pulpit/choir area ⁿ	0.85	
Retail		
In a dressing/fitting room	0.51	
In a mall concourse	0.82	
Sports arena—Playing area		
For a Class 1 facilityi	2.94	
For a Class 2 facility ⁱ	2.01	
For a Class 3 facility ^k	1.30	
For a Class 4 facility ^l	0.86	
Transportation ⁿ		
In a baggage/carousel area	0.39	
In an airport concourse	0.25	
At a terminal ticket counter ^a	0.51	
Warehouse—Storage area		
For medium to bulky palletized items	0.33	
For smaller, hand-carried items	0.69	

Commented [BK(1]: From CJ: Footnote doesn't go to anything

Commented [BK(2]: From CJ: Footnote doesn't go to anything

- c. For spaces in which lighting is specified to be installed in addition to, and controlled separately from, the general lighting Additional lighting power allowance of 0.2 watts per square foot for the purpose of highlighting art or exhibits. provided that the additional lighting power shall not exceed 0.2 W/square foot of such spaces. This additional power shall be permitted only where the specified lighting is installed in addition to and controlled separately from *general lighting* in accordance with Section C405.2.6. This additional power shall be used only for the specified luminaires and shall not be used for any other purpose and it shall not be added to any other space or the interior power allowance.
- n. Additional lighting power allowance of 0.15 W/watts per square foot for ornamental lighting. Qualifying ornamental lighting includes luminaires that are specifically used in a decorative manner, that does not serve as display lighting or general lighting. This additional power shall be permitted only where the specified lighting is installed in addition to and controlled separately from display or general lighting in accordance with Section C405.2.6. This additional power shall be used only for the specified luminaires and it shall not be added to any other space or the interior power allowance.

C405.4.2.2.1 Additional interior lighting power. Where using the Space-by-Space Method, an increase in the interior lighting power allowance is permitted for specific lighting functions. Additional power shall be permitted only where the specified lighting is installed and automatically controlled separately from the *general lighting*, to be turned off during nonbusiness hours and controlled in accordance with Section C405.2.6. This additional power shall be used only for the specified luminaires and shall not be used for any other purpose. [Insert carriage return]

An increase in the interior lighting power allowance is permitted for lighting equipment to be installed in sales areas specifically to highlight merchandise. The additional lighting power shall be determined in accordance with Equation 4-11:

Additional interior lighting power allowance = 500 watts + (Retail Area 1 × 0.45 W/ft²) + (Retail Area 2 × 0.45 W/ft²) + (Retail Area 3 × 1.05 W/ft²) + (Retail Area 4 × 1.87 W/ft²)

(Equation 4-11)

Where:

Retail Area 1 = The floor area for all products not listed in

Retail Area 2, 3 or 4.

Retail Area 2 = The floor area used for the sale of vehicles,

sporting goods and small electronics.

Retail Area 3 = The floor area used for the sale of furniture,

clothing, cosmetics and artwork.

Retail Area 4 = The floor area used for the sale of jewelry,

crystal and china.

Exception: Other merchandise categories are permitted to be included in Retail Areas 2 through 4, provided that justification documenting the need for additional lighting power based on visual inspection, contrast, or other critical display is *approved* by the *code official*.

Purpose of code change:

This Code Change Proposal amends the current code so that Washington State more closely matches ASHRAE-90.1 2019, without the specific addition of 0.75W/ft².

An increase in the interior lighting power allowance is permitted in the following cases:

a. For each space in which lighting is specified to be installed in addition to the general lighting for the purpose of decorative appearance or for highlighting art or exhibits not exempted in Table 9.2.3.1, Item 11, provided that the additional lighting power shall not exceed 0.75 W/ft² of such spaces.

As a reminder General Lighting in the Integrated Draft is now defined as:

GENERAL LIGHTING. Interior lighting that provides a substantially uniform level of illumination throughout and areas space. General lighting shall not include lighting that provides a dissimilar level of illumination to serve a specific application or decorative feature within such area.

Artwork illumination (display lighting) and lighting integrated within art (ornamental lighting) should be encouraged for the purpose of spatial definition, improved human experience, and general well-being. When applied selectively, as it most often is, display and ornamentation lighting has the potential to reduce the power consumption of general lighting surrounding it based on the needs of visual balance and implied hierarchy.

The problem with the code as written is that more space types in the Table C405.4.2(2) warrant the use of current footnotes c. (Display) and n. (Ornamental) lighting, e.g. primary stairways, tenant improvement open office areas, libraries at large (not just the reading room), in many health care facility areas, transportation areas, etc. The selection of pertinent areas can be subjectively interpreted, as can the difference between the lighting of artwork and lighting being the actual artwork.

Additionally, no mention of circadian stimulus lighting is mentioned in the code, a treatment in many commercial spaces now which doubles the connected load of the specific luminaire. Sometimes this lighting is the *general lighting*, and as such warrants different code language. A listing at 50% connected load will be comparable to static color temperature equivalent optical distribution luminaires.

The other benefit of this change is a reduction in code form complexity. The process for which information is entered into the form is burdensome when listed by space type. A blanket approach will allow for code form ease of use. Luminaires can be listed by type if they satisfy Additional Interior Lighting Power criteria a. or c. and tallied relative to the "Allowed Watts" total. No change is proposed to criteria b.

Your amendment must meet one of the following criteria. Select at least one:							
Addresses a critical life/safety need.		Consistency with state or federal regulations.					
 The amendment clarifies the intent or application of the code. Addresses a specific state policy or statute. (Note that energy conservation is a state policy) 			☐ Addresses a unique character of the state. ☐ Corrects errors and omissions.				
Check the building types that would be impacted by your code change:							
Single family/duplex/townhome Multi-family 4 + s		stories					
☐ Multi-family 1 – 3 stories ☐ Commercial / Re		tail	☐ Industrial				
Your name	CJ Brockway, IALD, M	IIES	Email address	cj@sparklabLD.com			
Your organization	SparkLab Lighting Design, LLC		Phone number	206.251.8117			
Other contact name Click here to enter text.							
<u>Instructions</u> : Send this form as an email attachment, along with any other documentation available, to:							

<u>sbcc@des.wa.gov</u>. For further information, call the State Building Code Council at 360-407-9278.

Economic Impact Data Sheet

Briefly summarize your proposal's primary economic impacts and benefits to building owners, tenants and businesses.

Provide your best estimate of the construction cost (or cost savings) of your code change proposal? (See OFM Life Cycle Cost <u>Analysis tool</u> and <u>Instructions</u>; use these <u>Inputs</u>. Webinars on the tool can be found <u>Here</u> and <u>Here</u>)

\$Click here to enter text./square foot (For residential projects, also provide \$Click here to enter text./ dwelling unit)

Show calculations here, and list sources for costs/savings, or attach backup data pages

Provide your best estimate of the annual energy savings (or additional energy use) for your code change proposal?

Click here to enter text.KWH/ square foot (or) Click here to enter text.KBTU/ square foot

(For residential projects, also provide Click here to enter text.KWH/KBTU / dwelling unit)

Show calculations here, and list sources for energy savings estimates, or attach backup data pages

List any code enforcement time for additional plan review or inspections that your proposal will require, in hours per permit application:

All questions must be answered to be considered complete. Incomplete proposals will not be accepted.